Adding Externally Provided Service with Its Own Client

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Overview

Advertising Service provides the following functions:

- **Ability to advertise services provided both by external data providers and ECS sites.**
- **Ability to relate service advertisements with the data they operate on and the providers advertising the service.**
- **Levels of advertisements to differentiate between classes of services (e.g. non-ECS and ECS).**
- **Infrastructure support for discovery of services and their signatures**
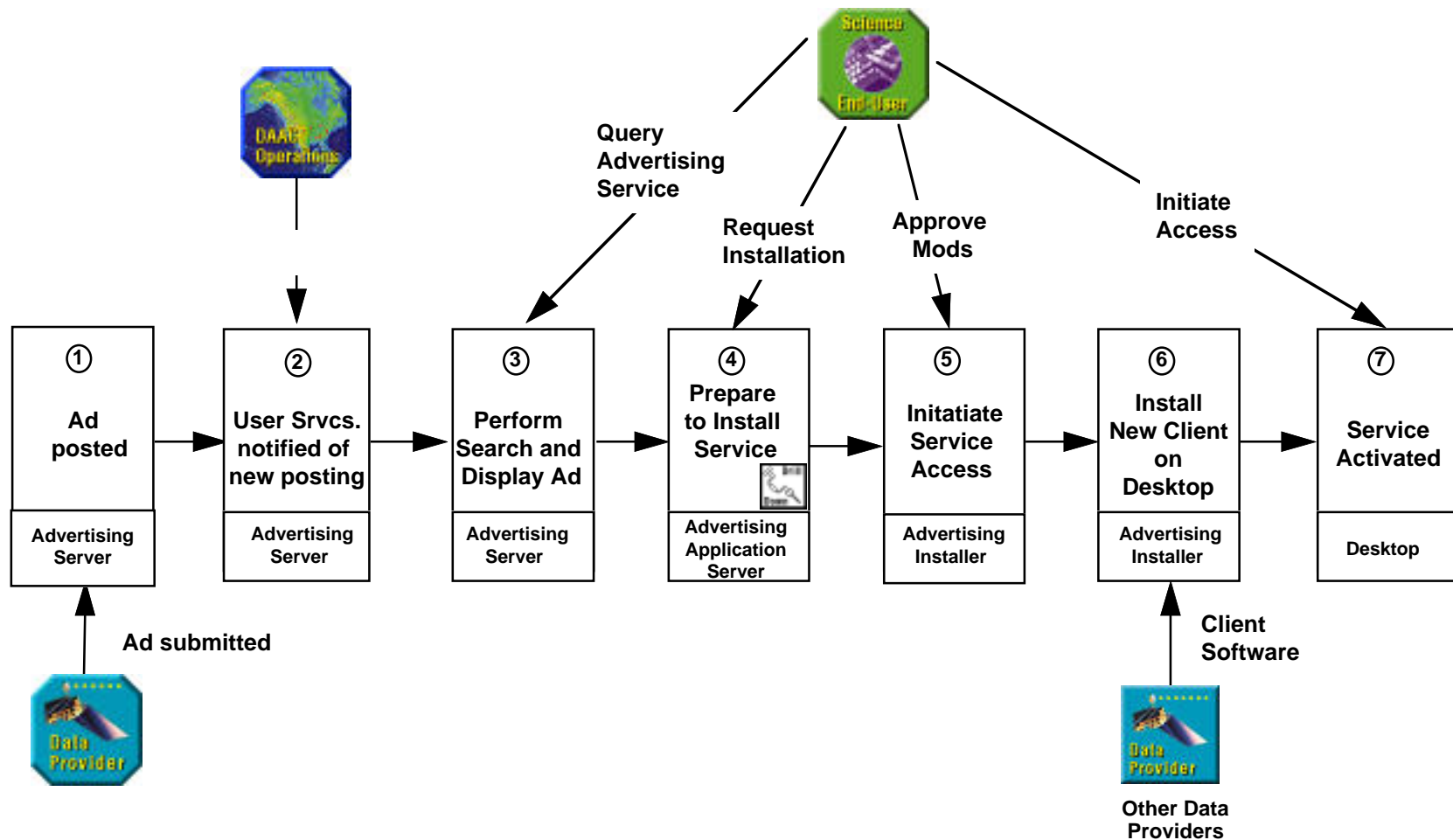- **Subscriptions for new and updated advertisements**

ECS Context

- **All subsystems use Advertising Service to retrieve signature details.**
- **Users access Advertising Service for direct access to services and data**
- **External Providers input advertisements**

Scenario Context

- **Advertising Service - Pull**

Advertising Pull from External Data Provider
Functional Flow

①	②	③	④	⑤	⑥	⑦
Ad posted	**User Srvcs. notified of new posting**	**Perform Search and Display Ad**	**Prepare to Install Service**	**Initatiate Service Access**	**Install New Client on Desktop**	**Service Activated**
Advertising Server	Advertising Server	Advertising Server	Advertising Application Server	Advertising Installer	Advertising Installer	Desktop

Query Advertising Service

Request Installation

Approve Mods

Initiate Access

Ad submitted

Client Software

Other Data Providers

Design Drivers
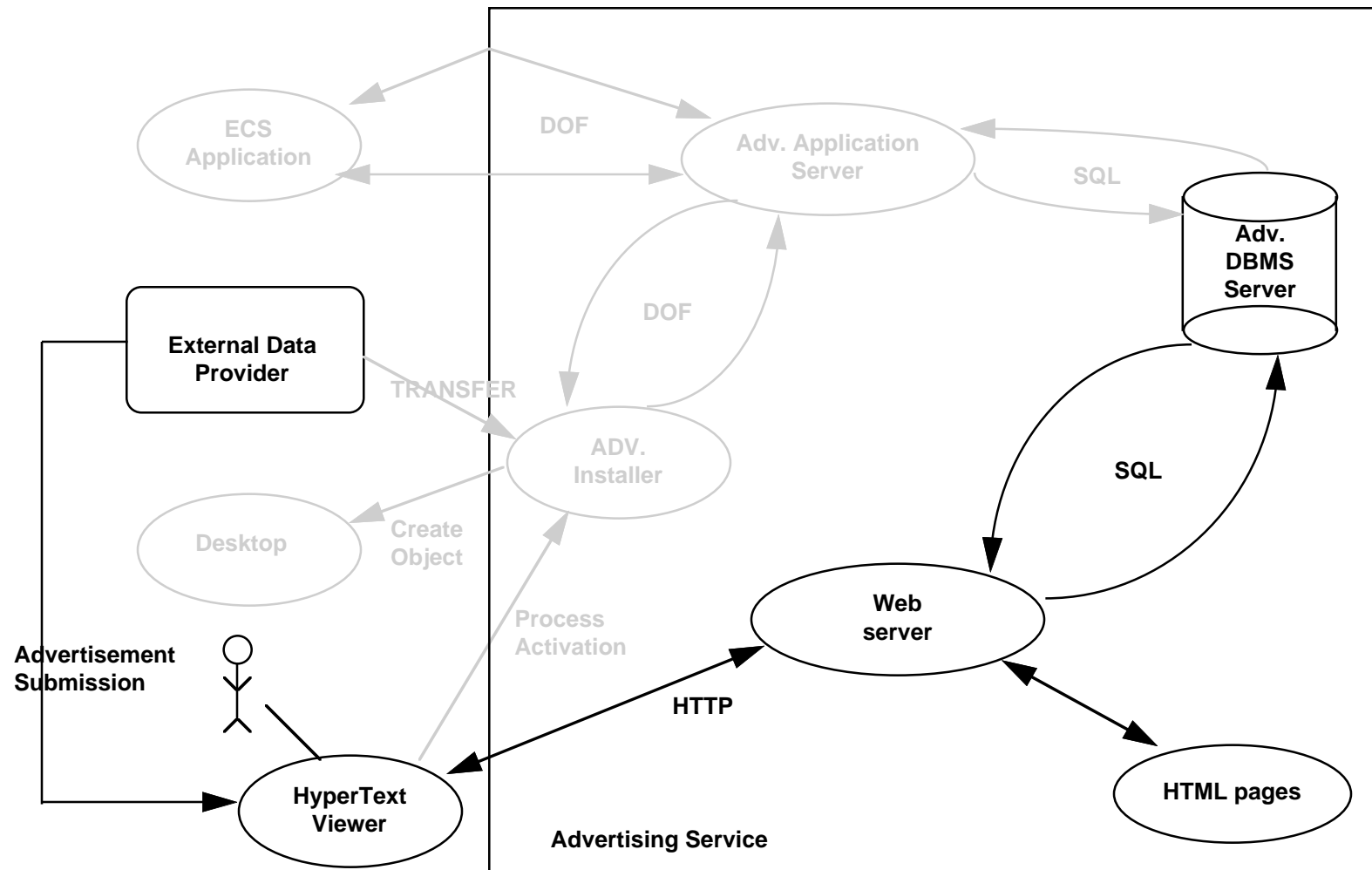
Driving Requirements

- **Provide an integrated view of the data and service network**
- **Restricted Access to Advertisements**
- **Support the modification of ECS services without modification to all applications using those services.**
- **Provide the ability to add services not part of the ECS core services.**
- **Provide the ability to add services by providers not part of the ECS provider network, for example, a value-added provider.**
- **Advertising Groups (with Moderators)**

New Features in the Release B Advertising Service

- **Common session interface implementation will cause change to Release A advertising service**
- **All other features of Advertising Service will be provided by Release A**
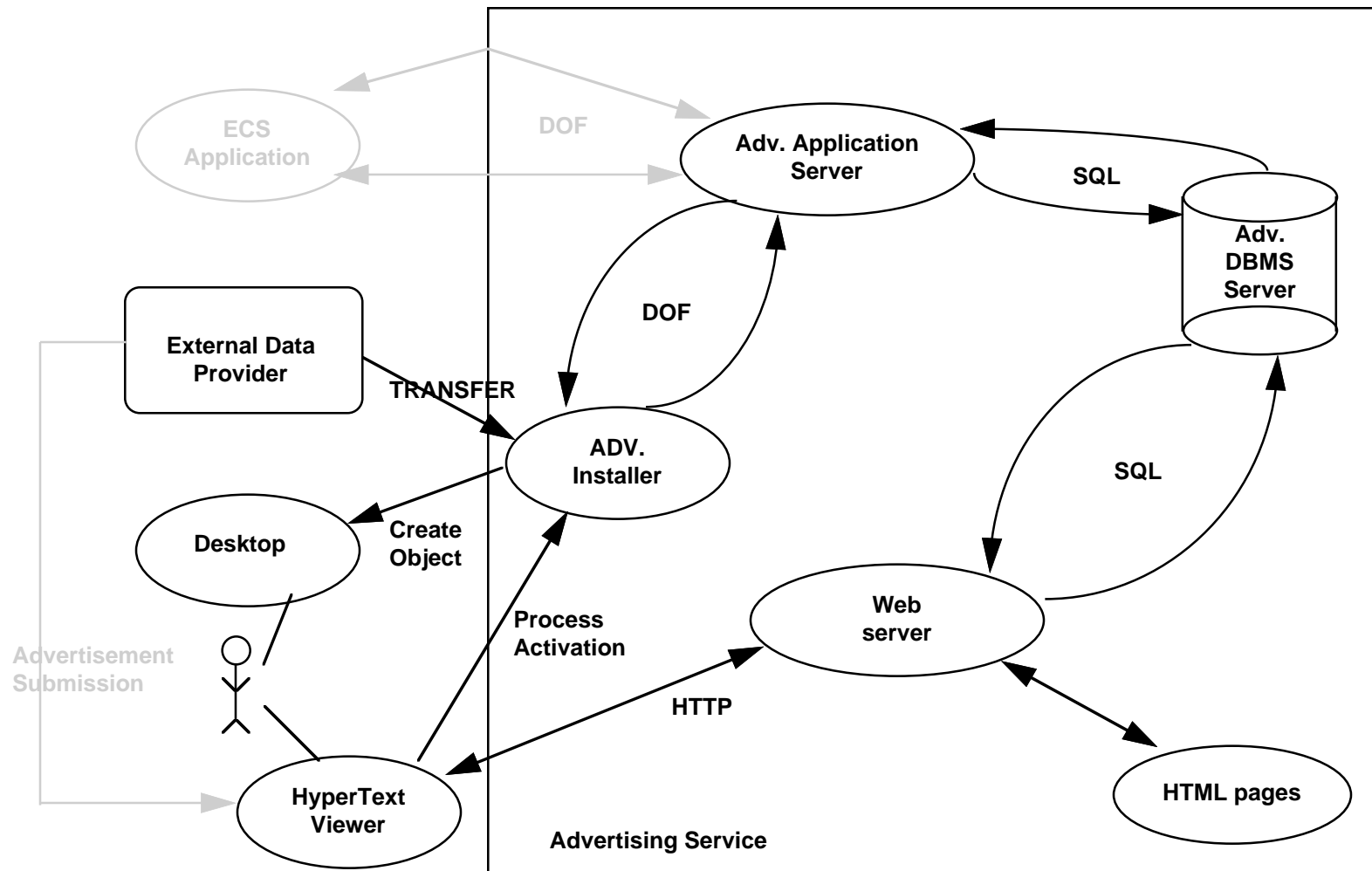
Advertising Service Architecture
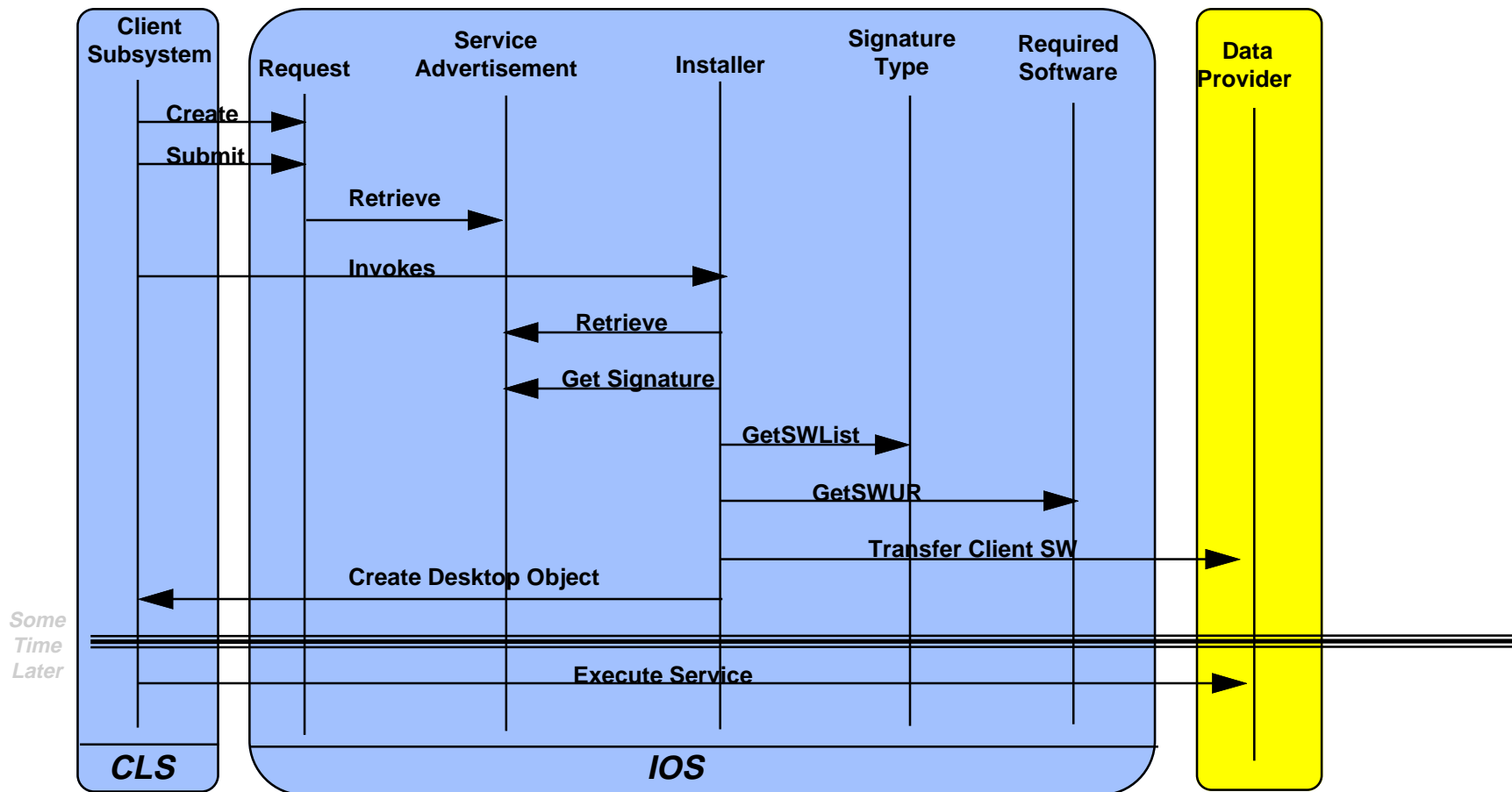# External Provider Service Insert

ECS Application

DOF

Adv. Application Server

SQL

Adv. DBMS Server

DOF

External Data Provider

TRANSFER

ADV. Installer

SQL

Desktop

Create Object

Process Activation

Web server

Advertisement Submission

HyperText Viewer

HTTP

Advertising Service

HTML pages

DOF = Distributed Object Framework

Advertising Service Architecture
Installation of External Service

ECS Application

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DOF = Distributed Object Framework

Advertisement Installation High Level Event Trace

Current Status

Prototypes

- **EP6**

    - **Focus on API and ECS internal interactions.**

    - **Prototype of Installer program**

Next Steps

- **Participate in Web server evaluation and procurement (Release A procurement ongoing).**

- **Security strategy for restricting Web access to advertisements based on user privileges. Participate in CSS prototype.**

Summary

Advertising Service allows users to review and install advertisements on the ECS Desktop.

Advertising Service allows advertisements to be submitted for services outside of the ECS provider network.

Support installation of non-ECS clients on user's desktop

Once service is installed, the Advertising Service is not involved in connections to non-ECS data providers.

Advertisements can be submitted to moderated groups.